



MORBIDITY AND MORTALITY WEEKLY REPORT

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National Adult Immunization Awareness Week — October 11–17, 1998

National Adult Immunization Awareness Week is October 11–17. This week emphasizes the importance of appropriately vaccinating adults against diphtheria, hepatitis A, hepatitis B, influenza, measles, mumps, pneumococcal disease, rubella, tetanus, and varicella. National Adult Immunization Awareness Week coincides with the beginning of the influenza vaccination season and emphasizes the need for intensified implementation of vaccination programs for adults.

Additional information about National Adult Immunization Awareness Week is available from the National Coalition for Adult Immunization, 4733 Bethesda Avenue, Suite 750, Bethesda, MD 20814; telephone (301) 656-0003; fax (301) 907-0878; e-mail adultimm@aol.com; and World-Wide Web site http://www.medscape.com/NCAl/publications/naiaw-kit/.

Influenza and Pneumococcal Vaccination Levels Among Adults Aged ≥65 Years — United States, 1997

In 1996, influenza and pneumonia were the fifth leading cause of death among persons aged \geq 65 years in the United States (1). A national health objective for 2000 is to increase influenza and pneumococcal vaccination levels to \geq 60% among persons at high risk for complications, including those aged \geq 65 years (2). To monitor states' progress toward achieving this objective, data from the 1997 Behavioral Risk Factor Surveillance System (BRFSS) were analyzed. This report summarizes the BRFSS findings, which indicate the influenza vaccination objective was exceeded by 45 states and by the 50 states and the District of Columbia (DC) combined, but the pneumococcal vaccination objective was not reached by any state.

The BRFSS is an ongoing, state-based, random-digit-dialed telephone survey of U.S. noninstitutionalized civilian adults aged ≥18 years. In 1997, 52 reporting areas (50 states, DC, and Puerto Rico) participated in the survey. Overall vaccination level estimates were based on combined data from the 51 reporting areas that included the 50 states and DC. Data from Puerto Rico were included in the area-specific analysis. Responses for two questions related to adult vaccination were analyzed: "During the

past 12 months, have you had a flu shot?" and "Have you ever had a pneumonia vaccination?" Of all 133,321 participants, 26,469 were aged ≥65 years. Respondents who did not report or did not know their vaccination status were excluded from the analysis (2% of respondents for the influenza vaccination question and 5% of respondents for the pneumococcal vaccination question). Previously published vaccination data from the 1995 BRFSS included in the denominator those respondents who did not report or did not know their vaccination status (3); for comparisons in this study, this group was excluded from the 1995 data. Data for racial/ethnic groups other than non-Hispanic whites, non-Hispanic blacks, and Hispanics were too small for analysis. Data were weighted by age and sex to reflect each state's most recent adult population estimate. SUDAAN was used to calculate point estimates and 95% confidence intervals (CIs).

During 1997, among persons aged ≥65 years, 65.5% (95% Cl=64.6%–66.4%) reported receiving influenza vaccine during the preceding year, and 45.4% (95% Cl=44.4%–46.3%) reported ever receiving pneumococcal vaccine (Table 1). Both percentages were higher than in 1995, when 58.7% (95% Cl=57.6%–59.7%) and 36.9% (95% Cl=35.9%–38.0%) reported receiving influenza and pneumococcal vaccine, respectively.

Among the 52 reporting areas, 45 had influenza vaccination levels ≥60%, and nine had levels ≥70% (range: 41.5% in Puerto Rico to 74.4% in Colorado) (Table 2). From 1995 to 1997, 48 of 50 states showed improvement in influenza vaccination levels (median percentage point difference: 6.1; range: –4.1 to 23.2).

Although all states reported pneumococcal vaccination levels <60% among persons aged ≥65 years, levels were ≥50% in 17 states; levels ranged from 32.2% in Louisiana to 59.4% in Arizona. All but four states showed improvement in the levels of pneumococcal vaccination from 1995 to 1997 (median percentage point difference: 8.8; range: –6.7 to 20.9).

Overall, persons aged 65–74 years were significantly less likely than persons aged ≥75 years to report receipt of influenza (63.2% compared with 69.1%) or pneumococcal (41.7% compared with 51.3%) vaccines (Table 1). Among persons aged ≥65 years in different racial/ethnic groups, non-Hispanic whites were more likely to report receipt of influenza (67.2%) and pneumococcal (47.3%) vaccines than Hispanics (57.9% and 34.1%, respectively) and non-Hispanic blacks (50.2% and 29.7%, respectively). Influenza and pneumococcal vaccination levels in all racial/ethnic groups increased from 1995 to 1997 (for influenza, 6.6 percentage points for non-Hispanic whites, 7.0 for Hispanics, and 10.4 for non-Hispanic blacks, and for pneumococcal, 8.3 for Hispanics, 8.5 for non-Hispanic whites, and 9.1 for non-Hispanic blacks). Men had slightly higher coverage levels than women for influenza vaccine; pneumococcal vaccination levels did not differ by sex.

Other factors correlated with vaccination levels were level of education, length of time since last check-up, and self-reported index of health (Table 1). As level of education increased and as self-reported health declined, vaccination levels increased for both vaccines. Persons reporting having had a routine check-up within the previous 12 months (86.3% of all respondents aged ≥65 years) were more likely to report receipt of influenza and pneumococcal vaccines than persons reporting a longer interval since their last check-up.

TABLE 1. Percentage of persons aged ≥65 years in the 50 states and the District of Columbia who reported receiving influenza or pneumococcal vaccine, by selected characteristics — Behavioral Risk Factor Surveillance System, 1997

		Influen	za		Pneumoc	occal
Characteristic	%	(95% CI*)	% point difference from 2000 objective	%	(95% CI)	% point difference from 2000 objective
Mean	65.5	(64.6–66.4)	5.5	45.4	(44.4–46.3)	-14.6
Age group (yrs)						
65–74	63.2	(62.0-64.3)	3.2	41.7	(40.4 - 42.9)	-18.3
≥75		(67.8–70.5)	9.1		(49.8–52.8)	- 8.7
Race/Ethnicity						
Non-Hispanic white	67.2	(66.3-68.1)	7.2	47.3	(46.3 - 48.3)	-12.7
Non-Hispanic black		(46.5–53.9)	- 9.8	29.7	(26.2-33.2)	-30.3
Hispanic .	57.9	(52.0-63.8)	- 2.1		(28.6–39.6)	-25.9
Other [†]	64.2	(56.8–71.7)	4.2	42.6	(34.3–50.9)	-17.4
Sex						
Men	67.0	(65.6-68.4)	7.0	45.1	(43.5-46.6)	-14.9
Women	64.4	(63.3–65.6)	4.4	45.6	(44.4–46.8)	-14.4
Education level						
Less than high school	60.1	(58.4-61.9)	0.1	40.1	(38.3-41.9)	-19.9
High school	65.0	(63.5-66.5)	5.0	45.0	(43.5-46.6)	-15.0
More than high school	69.5	(68.1–70.9)	9.5	49.1	(47.6–50.7)	-10.9
Time since last checkup						
1–12 months	68.8	(67.9-69.8)	8.8	48.3	(47.3 - 49.3)	-11.7
>1 year	47.2	(44.6–49.7)	-12.8	29.3	(26.9–31.7)	-30.7
Self-reported health						
Poor	71.0	(68.3-73.6)	11.0	54.5	(51.4-57.6)	- 5.5
Fair		(64.7-68.7)	6.7		(46.2–50.5)	-11.7
Good		(64.9-67.9)	6.4		(43.3–46.5)	-15.1
Very good or excellent	62.9	(61.5–64.4)	2.9		(40.7–43.8)	-17.8

^{*}Confidence interval.

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[†]Numbers from other racial/ethnic groups were too small for meaningful analysis.

TABLE 2. Percentage of persons aged \geq 65 years in the 50 states, the District of Columbia, and Puerto Rico who reported receiving influenza or pneumococcal vaccine, by reporting area — Behavioral Risk Factor Surveillance System (BRFSS), 1997

		Influ	ıenza			Pneum	ococcal	
			% Point	difference			% Point	difference
				1997 to				1997 to
			1995 to	2000			1995 to	2000
Reporting area	%	(95% CI*)	1997†	objective	%	(95% CI)	1997†	objective
Alabama	62.6	(57.6–67.5)	17.5	2.6	47.5	(42.3–52.6)	14.3	-12.5
Alaska	58.3	(46.9–69.7)	8.5	- 1.7	39.2	(28.2-50.3)	-6.7	-20.8
Arizona	72.9	(67.5–78.3)	7.6	12.9	59.4	(53.4–65.5)	10.2	- 0.6
Arkansas	61.1	(55.8–66.3)	0.1	1.1	39.1	(33.7–44.4)	1.9	-20.9
California	65.5	(61.7–69.3)	5.5	5.5	49.8	(45.8–53.9)	5.5	-10.2
Colorado	74.4	(69.0–79.9)	7.7	14.4	53.3	(47.2–59.5)	6.7	- 6.7
Connecticut	67.2	(62.2–72.3)	4.7	7.2	43.0	(37.6–48.4)	4.8	-17.0
Delaware	68.6	(64.4–72.8)	11.4	8.6	52.6	(47.9–57.3)	11.1	- 7.4
District of Columbia	54.3	(47.2–61.3)	NA§	- 5.7	32.3	(25.6–38.9)	NA	-27.7
Florida	62.3	(58.9–65.8)	0.7	2.3	45.5	(42.0–49.0)	6.0	-14.5
Georgia	58.5	(52.7–64.3)	11.5	- 1.5	48.5	(42.8–54.2)	8.9	-11.5
Hawaii	71.1	(65.9–76.3)	8.8	11.1	51.7	(45.8–57.7)	8.8	- 8.3
Idaho	66.4	(62.9–69.9)	2.3	6.4	50.2	(46.5–54.0)	10.0	- 9.8
Illinois	67.8	(61.3–74.3)	9.9	7.8	44.7	(38.1–51.3)	15.8	-15.3
Indiana	62.5	(57.3–67.8)	3.3	2.5	38.0	(32.7–43.4)	3.9	-22.0
lowa	69.7	(66.3–73.1)	6.1	9.7	51.5	(47.6–55.3)	6.6	- 22.0 - 8.5
Kansas	61.5	(56.3–66.7)	-0.7	1.5	43.7	(38.4–49.0)	-1.0	- 6.5 -16.3
Kentucky	61.2	(57.5–64.9)	-0.7 7.8	1.3	38.6	(34.8–42.3)	13.3	-10.3 -21.4
Louisiana	58.4							-21.4 -27.8
Maine		(52.3–64.5)	6.2	- 1.6	32.2	(26.4–38.1)	6.3	
Maryland	72.1	(66.7–77.4)	7.5	12.1	50.0	(44.3–55.7)	14.5	-10.0
Massachusetts	63.4	(59.0–67.8)	5.2	3.4	41.0	(36.6–45.4)	7.4	-19.0
	66.0	(60.1–72.0)	6.7	6.0	52.7	(46.4–59.0)	20.3	- 7.3
Michigan	63.6	(58.5–68.6)	6.8	3.6	45.6	(40.4–50.8)	5.7	-14.4
Minnesota	69.0	(65.7–72.2)	5.7	9.0	48.3	(44.8–51.8)	8.2	-11.7
Mississippi	61.1	(55.6–66.6)	4.1	1.1	45.9	(39.9–51.9)	6.5	-14.1
Missouri	70.3	(65.3–75.3)	3.7	10.3	44.3	(38.6–50.0)	12.1	-15.7
Montana	68.4	(63.0–73.7)	4.4	8.4	50.8	(45.0–56.7)	15.9	- 9.2
Nebraska	65.8	(61.7–69.9)	1.4	5.8	49.8	(45.4–54.2)	13.8	-10.2
Nevada	56.5	(46.3–66.7)	4.0	- 3.5	53.5	(43.1–64.0)	13.3	- 6.5
New Hampshire	64.6	(58.4–70.8)	8.7	4.6	49.6	(43.1–56.1)	9.1	-10.4
New Jersey	60.7	(55.9–65.5)	12.7	0.7	33.9	(29.3–38.6)	20.9	-26.1
New Mexico	72.8	(67.9-77.7)	3.8	12.8	50.1	(44.5 - 55.8)	10.6	- 9.9
New York	64.5	(60.3–68.7)	8.5	4.5	38.9	(34.5-43.4)	12.8	-21.1
North Carolina	64.6	(60.8-68.4)	12.0	4.6	50.6	(46.7-54.6)	19.4	- 9.4
North Dakota	64.8	(60.0–69.6)	7.4	4.8	40.8	(36.0–45.7)	7.6	-19.2
Ohio	65.4	(61.3–69.5)	2.4	5.4	38.5	(34.0-43.1)	-2.2	-21.5
Oklahoma	69.3	(65.1–73.5)	8.2	9.3	40.4	(36.1–44.6)	3.2	–19.6
Oregon	69.8	(65.8–73.9)	2.9	9.8	55.9	(51.5–60.2)	10.0	- 4.1
Pennsylvania	65.8	(62.0–69.6)	7.2	5.8	47.1	(42.9–51.2)	8.6	-12.9
Puerto Rico	41.5	(36.2-46.8)	NA	-18.5	33.7	(28.5-38.8)	NA	-26.3
Rhode Island	67.7	(62.4–73.0)	1.1	7.7	43.0	(37.4-48.6)	12.2	-17.0
South Carolina	74.3	(70.1–78.5)	23.2	14.3	41.6	(36.8-46.4)	15.1	-18.4
South Dakota	65.6	(61.0-70.1)	5.5	5.6	40.6	(36.1-45.2)	9.1	-19.4
Tennessee	69.1	(65.0-73.2)	5.9	9.1	45.0	(40.5-49.5)	15.1	-15.0
Texas	68.0	(62.9–73.2)	11.3	8.0	44.4	(38.8–50.0)	-0.3	-15.6
Utah	66.1	(60.5–71.8)	-4.1	6.1	48.5	(42.3-54.8)	5.8	-11.5
Vermont	69.5	(65.4–73.5)	5.4	9.5	51.6	(47.1–56.2)	15.7	- 8.4
Virginia	67.7	(62.8–72.5)	15.2	7.7	53.6	(48.0–59.2)	14.1	- 6.4
Washington	70.3	(66.3–74.2)	3.6	10.2	51.6	(47.1–56.1)	5.5	- 8.4
West Virginia	58.2	(53.7–62.6)	5.0	- 1.8	41.3	(36.9–45.6)	4.3	-18.7
Wisconsin	66.1	(60.7–71.4)	9.1	6.1	42.6	(36.9–48.3)	6.8	-17.4
Wyoming	72.4	(67.6–77.2)	5.6	12.4	50.9	(45.5–56.2)	7.0	- 9.1
-			5.5				,.0	0.1
Range	41.5–74	.4			32.2–59	.4		
Median	65.9				45.8			

^{*} Confidence Interval.

† Percentage point difference from 1995 to 1997 excluded don't know and unknown responses.

§ Not available. Puerto Rico and District of Columbia did not participate in the 1995 BRFSS.

Virginia; P Imm, MS, Wisconsin; M Futa, MA, Wyoming. SM Greby, DVM, Association of Schools of Public Health, Atlanta, Georgia. Adult Vaccine-Preventable Diseases Br, Epidemiology and Surveillance Div, and Statistical Analysis Br, Data Management Div, National Immunization Program; Behavioral Surveillance Br, Div of Adult and Community Health, National Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: The findings in this report indicate that in 1997, influenza and pneumococcal vaccination rates overall, by state, and by racial/ethnic group continued to increase from levels in 1995. The national health objective for influenza vaccination was exceeded by 45 states and by the 50 states and DC combined. No state met the national health objective for pneumococcal vaccination, but if state-specific coverage continues to increase at rates observed from 1995 to 1997, 28 states would reach or exceed the 60% coverage goal by 2000.

Vaccination rates varied substantially by state. Possible reasons for these differences include state differences in demographic distribution, provision of adult vaccination programs, physician practice patterns, and patient attitudes.

In the 50 states and DC combined, several factors were independently associated with self-reported receipt of influenza and pneumococcal vaccines. Racial/ethnic disparities in vaccination levels among Hispanics and non-Hispanic blacks continued and were not explained by differences in age, sex, education level, health-care access, or perceived health status. To understand reasons for disparity in vaccination by race/ethnicity, CDC and other federal agencies have implemented a national Eliminating Racial and Ethnic Disparities Initiative, with the goal of eliminating by 2010 disparities in infant mortality, diabetes, cancer screening and management, heart disease, human immunodeficiency virus infection/acquired immunodeficiency syndrome, and child and adult vaccinations.

Persons aged 65–74 years were less likely than persons aged ≥75 years to report receipt of influenza and pneumococcal vaccines, and this was not explained by differences in race/ethnicity, sex, education level, health-care access, or perceived health status. Increasing age may represent increased opportunity for encounters with the health-care system by patients, increased offers for vaccination by providers, and increased perception of need for vaccination by both patients and providers. Awareness of the need for routine vaccination should be increased among all persons aged ≥65 years.

Although most persons aged \geq 65 years had had a routine check-up during the previous year, many were not vaccinated against influenza and pneumococcal disease. Routine check-ups provide an ideal opportunity to review a patient's need for clinical preventive services and 1) provide pneumococcal vaccine to those not previously vaccinated or not documented to be vaccinated and 2) to recommend influenza vaccination or provide it if the check-up occurs during the influenza vaccination season usually beginning in September. A doctor's recommendation for vaccination services can have a strong influence on the patient's decision to be vaccinated (4–6).

The findings in this study are subject to at least two limitations. First, self-reports about vaccination status were not validated. However, in one study, the predictive value and accuracy of self-report of influenza vaccination within the previous year was up to 91% when vaccination status was validated by record review (7). Accuracy of recall of pneumococcal vaccination is under investigation by CDC. Second, persons residing in nursing homes and in households without telephones are not included in this survey, therefore results may not reflect vaccination levels in these groups.

Although the BRFSS was not designed to produce national estimates, overall vaccination levels from previous years have been similar to estimates from the National Health Interview Survey (NHIS) (in 1995, the BRFSS estimate was 0.8 percentage points higher for influenza vaccination and 4.5 percentage points higher for pneumococcal vaccine) (8). The NHIS is used to monitor progress toward the national 2000 objective.

To assist local planners in targeting public health programs to reach undervaccinated groups, states can expand the BRFSS survey or use local surveys to capture information on reasons for vaccination and nonvaccination, provider recommendations for vaccination, and accessibility of vaccination services. Because older adults have a high rate of reported routine medical care and because provider recommendation can influence a patient's decision to be vaccinated, strategies to improve vaccination directed at practitioners can have a large impact (9). Interventions, such as standing orders for vaccination, using provider and patient recalls and reminders, and feedback on vaccination levels, have been effective in increasing adult vaccination levels (9). Guidelines and tools for implementing these interventions are available through Put Prevention Into Practice, a national campaign to improve delivery of clinical preventive services (10). In addition, opportunities for vaccination outside of traditional health-care settings should be increased to reach healthy elderly persons who do not routinely access traditional health-care settings.

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National Fire Prevention Week — October 4–10, 1998

October 4–10 is National Fire Prevention Week. This year, the week will commemorate the Great Chicago Fire of 1871, which accounted for 250 deaths and destroyed 17,430 buildings. The aim of National Fire Prevention Week is to increase public awareness of fire safety and the prevention of fire-related injuries, deaths, and property damage by promoting fire prevention strategies. These strategies include 1) promoting safe storage of matches and flammable liquids, 2) teaching children not to play with matches or lighters, 3) discouraging persons from smoking in bed, 4) recommending that persons establish and practice fire escape plans, 5) encouraging the installation of a smoke alarm on each habitable floor of a home and outside each sleeping area, and 6) teaching persons how to extinguish fires.

This year, as part of National Fire Prevention Week, a unified North American fire drill, The Great Escape, will be held on October 7 at 6 p.m. This event is being coordinated by the National Fire Protection Association (NFPA) and participating fire departments, schools, and communities across the United States and Canada. Additional information about preventing residential fires and The Great Escape fire drill is available from NFPA, telephone (617) 984-7285, or from the World-Wide Web site http://www.nfpa.org.

Deaths Resulting from Residential Fires and the Prevalence of Smoke Alarms — United States, 1991–1995

In 1995, residential fires accounted for an estimated 3600 deaths and approximately 18,600 injuries (1,2). In addition, property damage and other direct costs have been estimated to exceed more than \$4 billion annually (3). To determine residential fire-related death rates, CDC analyzed death certificate data from 1991 to 1995 from U.S. vital statistics mortality tapes. Data from CDC's Behavioral Risk Factor Surveillance System (BRFSS) was used to determine the prevalence of smoke alarms in U.S. households. This report presents the findings of these analyses, which indicate a seasonal variation in fire-related deaths and a high prevalence of smoke alarms in residences in the United States.

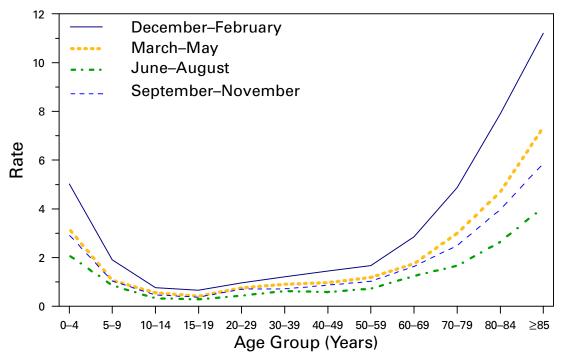
Deaths from residential fires were classified using *International Classification of Diseases, Ninth Revision*, external cause of injury codes E890–E899 and the place of occurrence noted as residence on the death certificate. The 1995 BRFSS survey is the only comprehensive survey from which state-specific prevalence rates for smoke alarms can be generated. The BRFSS is an ongoing, state-based, random-digit-dialed telephone survey of the U.S. population aged ≥18 years. Estimates of the prevalence of smoke alarms were weighted based on the number of telephone numbers per household and the age, sex, and race distribution in each state.

From 1991 to 1995, the U.S. residential fire-related death rate declined from 1.3 per 100,000 population to 1.1. During this time period, residential fire-related death rates were greatest during December–February and lowest during June–August (Figure 1).

The averaged annualized death rates for 1991–1995 showed that children aged <5 years and adults aged ≥65 years had higher rates than those in other age groups

Deaths Resulting from Residential Fires — Continued

FIGURE 1. Annualized rates* of deaths from residential fires,† by season and age group of decedents — United States, 1991–1995



^{*}Per 100,000 population.

(Figure 1). In 1995, 93.6% of households in the United States reported having at least one smoke alarm. The prevalence of smoke alarms ranged from 78.9% in Hawaii (95% confidence interval [CI]=76.7%–81.2%) to 98.7% in Maryland (95% CI=98.3%–99.1%) (Table 1).

Reported by: Div of Unintentional Injury Prevention, National Center for Injury Prevention and Control, CDC.

Editorial Note: During 1991–1995, deaths from residential fires declined, meeting the national health objective for 2000 of 1.2 per 100,000 persons (objective 9.6) (4). The findings in this report suggest that residential fire-related deaths were greatest during December–February, reflecting the seasonal use of heating devices (e.g., portable space heaters and wood-burning stoves). The leading causes of residential fires are due to cooking and heating devices improperly placed and/or left unattended (5).

Because 81% of fire-related deaths occur in the home, strategies that emphasize residential fire prevention probably will result in the largest reduction in fire-related deaths. To reduce the risk for death or injury resulting from fires, a smoke alarm should be installed outside each sleeping area and on every habitable level of a home (6). Homes with smoke alarms have almost half as many fire-related deaths compared with homes without smoke alarms (7,8). Children aged <5 years and adults aged ≥65 years have two to six times higher fire-related death rates compared with the national average for all ages (2). Both young children and older adults who may have physical limitations can benefit from the early warnings provided by smoke alarms.

[†] International Classification of Diseases, Ninth Revision, codes E890–E990.

Deaths Resulting from Residential Fires — Continued

TABLE 1. Prevalence of households* with at least one smoke alarm, by state — Behavioral Risk Factor Surveillance System, United States, 1995

State	%	(95% CI†)	State	%	(95% CI)
Alabama	92.6	(91.1%–94.1%)	Montana	90.1	(88.1%–92.1%)
Alaska	96.4	(94.9%–97.8%)	Nebraska	90.9	(89.4%–92.4%)
Arizona	91.5	(89.6%–93.3%)	Nevada	95.0	(93.8%–96.2%)
Arkansas	87.7	(85.9%–89.4%)	New Hampshire	97.7	(96.9%–98.6%)
California	92.7	(90.9%-94.5%)	New Jersey	96.0	(94.7%–97.3%)
Colorado	90.5	(89.0%-92.0%)	New Mexico	87.6	(85.4%-89.8%)
Connecticut	96.8	(95.9%-97.8%)	New York	94.5	(93.5%-95.5%)
Delaware	97.4	(96.5%-98.2%)	North Carolina	93.9	(93.0%-94.9%)
Florida	92.2	(91.1%-93.2%)	North Dakota	94.3	(93.0%-95.6%)
Georgia	92.9	(91.7%-93.5%)	Ohio	96.7	(95.6%-97.8%)
Hawaii	78.9	(76.7%–81.2%)	Oklahoma	93.2	(91.8%–94.5%)
ldaho	92.0	(90.9%-93.2%)	Oregon	97.7	(97.1%-98.2%)
Illinois	97.8	(97.0%-98.6%)	Pennsylvania	95.1	(94.3%-96.0%)
Indiana	95.8	(94.8%–96.7%)	Rhode Isaland	95.6	(94.5%–96.7%)
lowa	93.7	(92.8%-94.6%)	South Carolina	95.8	(94.6%–97.0%)
Kansas	91.9	(90.5%-93.2%)	South Dakota	88.1	(86.3%–89.8%)
Kentucky	91.9	(90.6%-93.2%)	Tennessee	92.6	(91.4%–93.8%)
Louisiana	84.5	(82.6%-86.5%)	Texas	87.6	(85.7%–89.5%)
Maine	96.4	(95.2%–97.7%)	Utah	91.1	(89.6%–92.6%)
Maryland	98.7	(98.3%-99.1%)	Vermont	95.3	(94.4%–96.3%)
Massachusetts	97.8	(97.0%–98.6%)	Virgina	96.1	(95.0%–97.1%)
Michigan	96.5	(95.6%–97.3%)	Washington	96.6	(95.8%–97.3%)
Minnesota	97.3	(96.6%–97.9%)	West Virginia	91.7	(90.4%–92.9%)
Mississippi	85.3	(83.0%-87.5%)	Wisconsin	96.9	(95.9%–97.9%)
Missouri	94.7	(93.3%–96.2%)	Wyoming	90.5	(89.1%–91.8%)

^{*}Persons aged ≥18 years who reported the presence of at least one smoke alarm.

The findings in this report also indicate that the prevalence of smoke alarms across the United States is high. This is, in part, due to various programs, such as distribution and installation programs, conducted by state and local health departments and fire service personnel and programs that provide smoke alarms to parents of newborns (9). However, these data do not necessarily reflect the proportion of homes equipped with functional smoke alarms. The effectiveness of smoke alarms is dependent on appropriately installing and maintaining the device (1), and approximately 50% of smoke alarms are no longer functional 12 months after installation. It is necessary to continue with programs to install smoke alarms in homes to achieve 100% coverage and to implement public health programs that focus on their maintenance.

This analysis has at least one important limitation. Low-income households less likely to have telephones are probably less likely to have smoke alarms. Because the BRFSS excludes households without telephones, the prevalence of smoke alarms may be overestimated.

Effective public health strategies to reduce residential fire-related injuries and deaths should include 1) smoke alarm installation, 2) monthly testing of smoke alarms, 3) reduction of residential fire hazards, 4) the design and practice of fire escape plans, 5) fire-safety education, and 6) the implementation of smoke alarm ordinances. The adoption of these strategies should lead to continued declines in residential fire-related deaths.

[†]Confidence interval.

Deaths Resulting from Residential Fires — Continued

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Outbreak of Cyclosporiasis — Ontario, Canada, May 1998

During May–June 1998, the Ontario Ministry of Health and local health departments in Ontario received reports of clusters of cases of cyclosporiasis associated with events held during May. This report describes the preliminary findings of the investigation of a cluster in Toronto, Ontario, and summarizes the findings from investigations of 12 other clusters. These investigations indicated that fresh raspberries imported from Guatemala were linked to the multicluster outbreak.

Toronto, Ontario

On June 2, Toronto Public Health was notified of a laboratory-confirmed case of cyclosporiasis in a person who attended a dinner at a hotel in Toronto on May 8. Six other persons who attended the dinner were reported to have diarrheal illness. A case of cyclosporiasis was defined as onset of any gastrointestinal (e.g., nausea or vomiting) or constitutional (e.g., fever or fatigue) symptom 1–14 days after the dinner and either 1) laboratory confirmation of *Cyclospora* oocysts in a stool specimen; 2) diarrhea (i.e., three or more loose or watery stools during a 24-hour period); or 3) at least four gastrointestinal symptoms. Of the 174 persons who attended the dinner, 128 (74%) were interviewed. Of these 128 persons, 29 (23%) had illness that met the case definition; three of the 29 persons had laboratory-confirmed cyclosporiasis. The median incubation period was 8 days (range: 1–12 days). All 29 case-patients had diarrhea; the median duration of diarrheal illness was 7 days (range: 1–34 days).

Eating the berry garnish (which included raspberries, blackberries, strawberries, and possibly blueberries) for the dessert was significantly associated with risk for illness. Of the 108 persons who ate or probably ate the berry garnish, 28 (26%) became

Cyclosporiasis — Continued

ill, compared with one (5%) of the 20 persons who did not or probably did not eat the berry garnish (relative risk [RR]=5.2; p=0.04, Fisher's exact test). Among the berries in the garnish, raspberries were the only berries significantly associated with risk for illness. Of the 94 persons who ate or probably ate the raspberries, 27 (29%) became ill, compared with two (6%) of the 32 persons who did not or probably did not eat the raspberries (RR=4.6; 95% confidence interval=1.2–18.3).

Other Investigations

Twelve other clusters of cases of cyclosporiasis in addition to the Toronto cluster described above have been investigated; each of the 13 clusters had two or more cases, at least one of which was laboratory confirmed. Based on preliminary data, the 13 clusters comprise 192 cases; 46 (24%) of the 192 were laboratory confirmed. The dates of the events associated with the clusters ranged from May 2 through May 23, 1998.

Fresh raspberries were the only food in common to all 13 events. Raspberries were included in mixtures of various types of berries at 12 events and were the only type of berry served at one event. The median of the event-specific attack rates for the 13 events, irrespective of exposures, was 89% (range: 23%–100%). The median of the event-specific attack rates for persons who ate or probably ate the food items that included raspberries was 100% (range: 26%–100%); the median attack rate for persons who did not or probably did not eat these food items was 0% (range: 0%–67%). Eating the food items that included raspberries was significantly associated with risk for illness for five events; for the other eight events, eating the raspberry-containing food items could account for 60 (92%) of 65 cases. Traceback investigations to identify the source(s) of the raspberries have been completed for eight events, including the event described above; Guatemala was the only source of the raspberries served at the events. Mesclun lettuce and fresh basil, which were implicated in outbreaks of cyclosporiasis in the United States in 1997 (1,2), each were served at two events but were not significantly associated with risk for illness.

Reported by: Toronto Public Health, Toronto; Haliburton-Kawartha-Pine Ridge District Health Unit, Port Hope; Simcoe County District Health Unit, Barrie; York Regional Health Unit, Newmarket; Disease Control Svc, Public Health Br, Ontario Ministry of Health, Toronto; Central Public Health Laboratory, Laboratory Services Br, Ontario Ministry of Health, Toronto. Canadian Food Inspection Agency, Fresh and Processed Plant Products Div, Ottawa, and Food Inspection, Ontario Region, Toronto and Guelph; Bur of Infectious Diseases and Field Epidemiology Training Program, Laboratory Center for Disease Control, and Food Directorate, Health Canada, Ottawa. Parasitic Disease Surveillance Unit, New York City Dept of Health, New York. Div of Parasitic Diseases, National Center for Infectious Diseases; and an EIS Officer, CDC.

Editorial Note: The findings in this report indicate that fresh raspberries imported from Guatemala were linked to the outbreak of cyclosporiasis in Ontario in May 1998. Outbreaks of cyclosporiasis in North America in the spring of 1996 and 1997 also were linked to Guatemalan raspberries; the mode of contamination of the raspberries was not identified for any of these outbreaks (1,3). No outbreaks were recognized in association with Guatemalan raspberries during Guatemala's fall and winter export seasons in 1996 and 1997.

After the outbreak in 1996, berry growers and exporters in Guatemala, in consultation with the Food and Drug Administration (FDA) and CDC, voluntarily introduced control measures that focused on improving water quality and sanitary conditions on individual farms (1). In the spring of 1997, another outbreak of cyclosporiasis

Cyclosporiasis — Continued

occurred despite the implementation of control measures and the restriction (beginning April 22, 1997) that, during that spring, only farms classified by the Guatemalans as low risk could export to North America (1). In the spring of 1998, FDA did not allow importation of fresh raspberries from Guatemala into the United States. The Canadian Food Inspection Agency reported that fresh raspberries from farms that the Guatemalans had classified as low risk continued to be imported into Canada until June 9, 1998. The occurrence of outbreaks in 1997 and 1998 despite the implementation of control measures on Guatemalan farms suggests either that the control measures may not have been fully implemented by some farms, were not effective, or were not directed against the true source of contamination of the raspberries (1). The Guatemalan Berry Commission and the government of Guatemala are developing a more comprehensive plan for growing and handling raspberries that includes additional control measures and inspection criteria; the plan is being reviewed by U.S. and Canadian officials.

This is at least the third, and possibly the fourth (4), consecutive year in which outbreaks of cyclosporiasis linked to consumption of raw produce have occurred in North America. In addition to Guatemalan raspberries, fresh mesclun lettuce and fresh basil that were not from Guatemala have been implicated in outbreaks in the United States (1,2). The mode of contamination of the produce was not determined for any of the outbreaks, in part because the methods for detecting *Cyclospora* on produce and in other environmental samples are insensitive for detecting low levels of the parasite. Produce should be washed thoroughly before it is eaten; however, this practice does not eliminate the risk for transmission of *Cyclospora* (3,5,6).

Health-care providers should consider the diagnosis of *Cyclospora* infection in persons with prolonged diarrheal illness and specifically request testing of stool specimens for this parasite. The average incubation period for cyclosporiasis is 1 week; in patients who are not treated with trimethoprim-sulfamethoxazole (7), illness can be protracted, with remitting and relapsing symptoms.

Cases of *Cyclospora* infection unrelated to travel outside of Canada or the United States may be associated with a new outbreak. Newly identified clusters should be investigated to identify the vehicles of infection and to identify the sources and modes of contamination of the implicated vehicles. Although cyclosporiasis is not a reportable disease in any Canadian province or territory, as of June 1998, five states and one municipality in the United States had mandated reporting. In June 1998, the Council of State and Territorial Epidemiologists passed a resolution recommending that cyclosporiasis be made a nationally notifiable disease in the United States. In jurisdictions where formal reporting mechanisms are not yet established, clinicians and laboratorians who identify cases of cyclosporiasis unrelated to travel outside North America are encouraged to inform the appropriate local, provincial, territorial, or state health departments, which in turn are encouraged to contact, in Canada, the Division of Disease Surveillance, Bureau of Infectious Diseases, Laboratory Center for Disease Control, telephone (613) 941-1288; and, in the United States, CDC's Division of Parasitic Diseases, National Center for Infectious Diseases, telephone (770) 488-7760.

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Local Data for Local Decision Making — Selected Counties, Connecticut, Massachusetts, and New York, 1997

Although the delivery of clinical preventive services to adults, such as adult vaccinations and cancer and cardiovascular screening, reduces premature morbidity and mortality (1), such services are underused (1–3). Performance monitoring at the population level plays a critical role in supporting efforts to increase the use of clinical preventive services. However, many communities do not have the capacity to measure prevention activities. Without such information, efforts aimed at improving the county-wide or regional use of clinical preventive services must rely on state or national data. To examine the use of seven clinical preventive services among adults at the county level and to demonstrate how a population-based survey can be used to guide local prevention efforts, a community-based coalition (the Sickness Prevention Achieved through Regional Collaboration [SPARC]), in collaboration with state health departments, peer review organizations, and CDC, conducted a survey in the four-county SPARC region. This report summarizes the results of this analysis, which indicate that clinical preventive services in this region were underused despite high levels of access to medical care.

The SPARC initiative, established by the Berkshire Taconic Community Foundation in 1994, represents a collaboration of 75 organizations and businesses with an interest in disease prevention in a four-county region at the junction of Connecticut, Massachusetts, and New York (regional population: 636,000). SPARC's mission is to improve the health of residents by increasing their use of clinical preventive services.

Using methodology from the Behavioral Risk Factor Surveillance System (BRFSS), the SPARC Disease Prevention Survey was designed to establish county-level baseline estimates and identify barriers to increasing the use of preventive health services. The survey provides prevalence estimates for the use of screening measures, such as blood cholesterol level, blood stool test, sigmoidoscopy, Papanicolaou test, mammography, and influenza and pneumococcal vaccinations.

Data are presented for 2241 noninstitutionalized respondents selected by random-digit–dialed telephone survey methods. Only adults aged ≥50 years were selected because many prevention services are not recommended until age 50 years (e.g., blood stool test and sigmoidoscopy) or age 65 years (e.g., influenza and pneumococcal vaccination). The overall response rate for the survey was 63%. Data were weighted to

Local Data for Local Decision Making — Continued

correct for disproportionate probabilities of selection and to post-stratify the data to census estimates of the population age and sex distributions for the four counties. SUDAAN was used to produce confidence intervals and to account for the complex survey design. Results are not stratified by race/ethnicity because the population was predominately white (95%) and non-Hispanic (98%).

Prevalence of health-care coverage was high among this age group, with approximately 42% of respondents on Medicare (Table 1). Most respondents had had a routine checkup during the preceding 2 years (Table 2). The prevalence of specific clinical preventive services varied by county. The least used services were blood stool test in Litchfield County, Connecticut (32.2%), sigmoidoscopy in Columbia County, New York (26.0%), and pneumococcal vaccination in Dutchess County, New York (36.9%). Physician recommendation for preventive services was strongly associated with the patient receiving the services. For example, the prevalence of persons who received a preventive service after a physician recommendation was higher than that of persons who received the service without a recommendation (e.g., blood stool test [57.0% versus 15.3%], pneumococcal vaccination [92.0% versus 13.6%], and influenza vaccination [80.4% versus 43.1%]). The prevalence of clinical preventive services use in surveyed counties was similar to the prevalences for Connecticut, Massachusetts, and New York collected through state BRFSS surveys.

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Editorial Note: The findings in this report indicate that despite high levels of health-care coverage and access to physicians, adult clinical preventive services in the region are not fully used. These findings are consistent with studies in other populations that indicate patients are often not aware of the need for these services and that clinicians frequently do not recommend preventive services to their patients (4–6). As a result of the survey findings, SPARC plans to broaden its partnerships with medical specialists and generalists to improve the use of preventive services.

Acquiring information at the local level helps local institutions, organizations, and persons recognize the existence and magnitude of a public health challenge and creates new opportunities for community-wide interventions that can increase the use of preventive services. Performance monitoring is an important tool for establishing shared responsibility among community-level health-care providers (7). A major reason preventive services are not fully used in the United States may be that no defined public or private organization takes responsibility for assuring that all residents in a community are presented with an informed choice and reasonable access to these services.

SPARC is an example of a public/private partnership that fosters community-based activism for clinical preventive services. Although SPARC does not deliver these services, it has developed a local infrastructure that can use data from the survey as a basis for action. For example, SPARC has been working since 1995 to increase the use

TABLE 1. Number and percentage of persons aged ≥50 years reporting selected demographic and health-care factors, by county — Sickness Prevention Achieved through Regional Collaboration survey, 1997

	Berkshire C	ounty, Mass.	Columbia (County, N.Y.	Dutchess (County, N.Y.	Litchfield C	ounty, Conn.
Characteristic	No.	(%)	No.	(%)	No.	(%)	No.	(%)
Sex								
Women	278	(57.4)	315	(54.7)	392	(54.3)	328	(54.4)
Men	210	(42.6)	199	(45.3)	263	(45.7)	256	(45.6)
Age group (yrs)								
50–64	231	(44.9)	285	(48.7)	364	(54.2)	317	(49.6)
≥65	257	(55.1)	229	(51.3)	291	(45.8)	267	(50.4)
Education level								
Less than high school	74	(15.2)	72	(15.6)	79	(11.4)	78	(14.0)
Some college	184	(38.3)	209	(41.9)	232	(35.8)	214	(37.6)
College graduate	228	(46.5)	230	(42.5)	341	(52.8)	288	(48.4)
Employment status								
Employed	173	(33.0)	215	(36.9)	274	(42.0)	269	(41.5)
Unemployed	15	(2.9)	10	(1.4)	20	(2.8)	13	(2.2)
Homemaker/Student	12	(2.8)	24	(4.4)	27	(4.1)	25	(4.1)
Retired	287	(61.4)	264	(57.3)	333	(51.1)	274	(52.2)
Health-care coverage*								
Yes	461	(95.2)	485	(95.1)	623	(95.4)	554	(96.2)
No	26	(4.8)	29	(4.9)	32	(4.6)	25	(3.8)
Type of coverage								
Employer	185	(38.8)	214	(40.0)	313	(51.1)	246	(42.9)
Private pay	32	(7.3)	46	(9.2)	28	(4.3)	39	(6.5)
Medicare	205	(47.5)	184	(43.6)	224	(36.6)	226	(44.0)
Medicaid	21	(3.6)	17	(3.2)	19	(2.5)	8	(2.0)
Other	15	(2.8)	21	(4.1)	36	(5.5)	30	(4.6)
Health status [†]								
Excellent/Very good/Good	403	(83.0)	412	(79.3)	531	(81.9)	488	(83.9)
Fair/Poor	84	(17.0)	102	(20.7)	120	(18.1)	92	(16.1)

^{*}Respondents were asked, "Do you have any kind of health care coverage, including prepaid plans such as HMOs or government plans such as Medicare?"

†Respondents who reported excellent, very good, or good health are compared with those reporting fair or poor health.

TABLE 2. Prevalence of factors related to access to health care and prevalence of clinical preventive health behaviors among adults aged ≥50 years, by county — Sickness Prevention Achieved through Regional Collaboration survey, 1997 Local Data for Local Decision Making — Continued

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	Ве	rkshire	Co., Mass.	С	olumbi	a Co., N.Y.	D	utches	s Co., N.Y.	Lit	chfield	Co., Conn.	BRFSS	
Factor	No.	%	(95% CI*)	No.	%	(95% CI*)	No.	%	(95% CI)	No.	%	(95% CI)	median† (%)	
Last routine checkup <2 years ago	439	91.3	(88.6–93.9)	466	93.3	(91.0–95.6)	582	90.6	(88.1–93.1)	529	91.7	(89.3–94.1)	89.9	
Regular care source	442	91.0	(88.3–93.7)	471	91.9	(89.4–94.5)	584	88.7	(85.8–91.5)	523	89.9	(87.3–92.6)	NA§	
Cost is barrier [¶]	27	5.5	(3.3- 7.7)	25	4.7	(2.8- 6.7)	32	3.9	(2.5- 5.3)	31	5.4	(3.4- 7.3)	6.6	
Ever had cholesterol check	436	90.6	(87.9–93.3)	472	94.1	(92.0-96.3)	605	93.0	(90.8–95.1)	508	89.5	(86.9–92.1)	89.2	
Blood stool test <1 year ago	190	40.3	(35.6–45.0)	163	35.8	(31.1–40.5)	211	33.5	(29.5–37.5)	186	32.2	(28.1–36.3)	NA	
Sigmoidoscopy examination <5 years ago	134	27.9	(23.6–32.2)	127	26.0	(21.7–30.2)	206	33.8	(29.8–37.9)	163	29.2	(25.2–33.3)	30.5	
Last Papanicolaou smear** <2 years ago	135	76.4	(69.6–83.3)	164	72.3	(65.7–78.9)	211	73.9	(68.3–79.6)	161	72.0	(65.7–78.3)	74.4	
Last mammogram <2 years ago	220	80.0	(74.9–85.1)	232	72.8	(67.1–78.5)	278	71.6	(66.7–76.5)	249	78.3	(73.6–83.0)	73.4	
Last influenza shot ^{††} <1 year ago	183	73.7	(68.0–79.5)	147	65.6	(58.9–72.2)	178	62.0	(55.9–68.1)	177	67.1	(61.1–73.1)	65.5	
Pneumococcal shot ever ^{††}	123	50.6	(44.0-57.2)	89	39.8	(32.8-46.8)	100	36.9	(30.8-43.0)	112	43.4	(36.9-49.9)	45.4	

^{*}Confidence interval.

[†]From the 1997 U.S. Behavioral Risk Factor Surveillance System (BRFSS) survey.

Respondents were asked, "Was there a time in the last 12 months when you needed to see a doctor but could not because of the cost?"

**Percentage of female respondents, without hysterectomy, who report that they had had a Papanicolaou smear within the preceding 2 years.

^{††}Only reported for persons aged ≥65 years.

Local Data for Local Decision Making — Continued

of influenza vaccination among persons aged ≥65 years in each of the four counties through outreach and marketing campaigns. To promote pneumococcal vaccination, in 1997, SPARC's collaborators in two counties offered pneumococcal vaccination along with influenza vaccination, which more than doubled the prevalence of pneumococcal vaccination with only a modest increase in resources. From 1996 to 1997, the annual prevalence of pneumococcal vaccinations reimbursed by Medicare increased from 5.9% to 12.1% in Litchfield County and from 6.7% to 13.4% in Dutchess County (Health Care Financing Administration, unpublished data, 1998).

Based on these survey data, SPARC and its collaborators (i.e., preventive service providers, community associations, businesses, and county and municipal health departments) are designing and implementing additional ways of increasing the use of preventive services. Outreach strategies include community mailings, establishment of new sites for prevention activities, improved access to information hotlines, and radio and local cable television announcements.

The findings in this report are subject to at least three limitations. First, the survey excluded households without telephones; however, telephone coverage in all three states is very high (93%–96%) (8). Second, self-reported data are subject to recall bias, potentially resulting in overestimates or underestimates of use. Finally, the survey excludes nursing home residents who comprise approximately 5% of the population aged ≥65 years in these four counties.

A second SPARC survey is planned for 2001 to measure anticipated progress in the county and regional delivery of clinical preventive services. Enlisting the support of health-care providers, community associations, and patients in increasing the use of clinical preventive services for adults can reduce health-care costs and morbidity and mortality and enhance the quality of life in the aging U.S. population.

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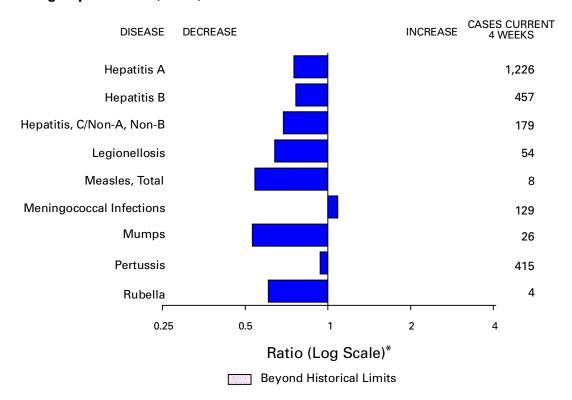
Notice to Readers

National Infection Control Week — October 18–24, 1998

National Infection Control Week is October 18–24. This week emphasizes the importance of protecting patients and health-care workers from infections acquired in health-care settings. Each year, approximately 2 million patients develop a hospital-associated infection, and an estimated 88,000 patients die as a direct or indirect result of such infections. In addition, the 6 million health-care workers in the United States are at risk for acquiring serious and potentially deadly infections (e.g., hepatitis B and C and human immunodeficiency virus infection).

During National Infection Control Week, health-care facilities around the country will sponsor activities designed to heighten public awareness of, and professional commitment to, the importance of preventing infections in health-care settings. Health-care workers, patients, and visitors can contribute to preventing the spread of infection by using infection-control measures such as handwashing. Additional information about infection control is available from CDC's Hospital Infections Program, National Center for Infectious Diseases, World-Wide Web site http://www.cdc.gov/ncidod/ hip/hip.htm. A free copy of the 1998 Infection Control Resource Kit is available from the Association for Professionals in Infection Control and Epidemiology (APIC), telephone (202) 789-1890, or the World-Wide Web site http://www.apic.org.

FIGURE I. Selected notifiable disease reports, comparison of provisional 4-week totals ending September 26, 1998, with historical data — United States



^{*}Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

TABLE I. Summary — provisional cases of selected notifiable diseases, United States, cumulative, week ending September 26, 1998 (38th Week)

	Cum. 1998		Cum. 1998
Anthrax Brucellosis Cholera Congenital rubella syndrome Cryptosporidiosis* Diphtheria Encephalitis: California* eastern equine* St. Louis* western equine* Hansen Disease Hantavirus pulmonary syndrome* Hemolytic uremic syndrome, post-diarrheal* HIV infection, pediatric*	- 42 7 3 2,459 1 56 4 3 - 86 15 52 164	Plague Poliomyelitis, paralytic Psittacosis Rabies, human Rocky Mountain spotted fever (RMSF) Streptococcal disease, invasive Group A Streptococcal toxic-shock syndrome* Syphilis, congenital* Tetanus Toxic-shock syndrome Trichinosis Typhoid fever Yellow fever	6 1 30 - 237 1,655 40 286 31 96 9

^{-:}no reported cases *Not notifiable in all states.

^{*}Not notifiable in all states.

† Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID).

† Updated monthly to the Division of HIV/AIDS Prevention–Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), last update August 30, 1998.

† Updated from reports to the Division of STD Prevention, NCHSTP.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending September 26, 1998, and September 20, 1997 (38th Week)

	AIDS				coli O	erichia 157:H7	_	_	Нера	
	Cum.	OS Cum.	Chlai Cum.	mydia Cum.	NETSS [†] Cum.	PHLIS§ Cum.	Gono Cum.	rrhea Cum.	C/NA Cum.	A,NB Cum.
Reporting Area	1998*	1997	1998	1997	1998	1998	1998	1997	1998	1997
UNITED STATES	31,523	41,875	386,438	328,102	2,151	1,270	234,119	208,047	2,822	2,591
NEW ENGLAND Maine	1,194 22	1,777 42	14,022 734	12,730 701	267 31	206	4,045 52	4,285 41	42	46
N.H. Vt.	28 17	29 31	673 298	569 294	37 14	36 7	71 26	72 40	-	2
Mass.	604	640	6,109	5,193	128	126	1,589	1,543	39	37
R.I. Conn.	88 435	113 922	1,668 4,540	1,468 4,505	11 46	1 36	273 2,034	339 2,250	3	7
MID. ATLANTIC	8,893	12,617	45,931	41,857	225	61	26,379	27,342	286	238
Upstate N.Y. N.Y. City	1,014 5,005	1,931 6,451	N 24,987	N 19,722	167 6	- 10	4,155 11,028	4,586 9,983	222	175
N.J.	1,655	2,630	7,858	7,197	52	41	4,952	5,603	-	-
Pa.	1,219	1,605	13,086	14,938	N	10	6,244	7,170	64	63
E.N. CENTRAL Ohio	2,276 485	3,142 676	64,554 18,412	43,495 15,855	326 91	243 48	45,116 11,635	28,498 10,427	390 7	443 14
Ind. III.	379 888	444 1,178	4,656 18,464	6,532 U	73 82	38 39	2,974 15,269	4,356 U	4 25	12 73
Mich.	390	648	15,736	13,150	80	49	12,115	10,293	354	319
Wis.	134	196	7,286	7,958	N 204	69	3,123	3,422	-	25
W.N. CENTRAL Minn.	599 119	796 137	22,116 4,439	23,382 4,772	364 179	233 98	11,233 1,675	10,167 1,672	228 9	48 3
lowa Mo.	51 282	78 380	2,063 8,688	3,232 8,675	78 30	46 47	660 6,455	845 5,264	7 206	23 9
N. Dak.	4	10	616	611	10	13	51	43	-	2
S. Dak. Nebr.	13 56	7 71	1,128 1,437	936 1,813	22 26	21	178 507	98 726	2	2
Kans.	74	113	3,745	3,343	19	8	1,707	1,519	4	9
S. ATLANTIC Del.	7,960 104	10,261 174	79,518 1,799	68,031	180	114 2	66,313 1,002	66,883 876	141	173
Md.	914	1,382	5,479	5,227	27	12	6,392	8,376	8	4
D.C. Va.	635 650	751 782	N 9,837	N 8,625	1 N	38	2,660 6,701	3,187 6,030	- 11	22
W. Va.	60	80	1,843	2,125	8	5	549	690	6	15
N.C. S.C.	536 507	597 575	16,034 13,146	12,504 9,153	43 9	36 5	13,983 8,442	12,330 8,468	18 3	40 32
Ga. Fla.	846 3,708	1,162 4,758	17,101 14,279	11,689 18,708	60 32	- 16	15,191 11,393	13,787 13,139	9 86	60
E.S. CENTRAL	1,273	1,480	28,115	25,075	89	33	27,690	25,136	162	267
Ky. Tenn.	195 434	238 612	4,477 9,735	4,680 9,236	22 43	- 29	2,561 8,551	2,974 7,914	18 137	11 179
Ala.	372	384	7,179	6,111	21	2	9,314	8,603	5	7
Miss.	272	246	6,724	5,048	3	2	7,264	5,645	2	70 245
W.S. CENTRAL Ark.	3,799 136	4,632 180	58,858 2,599	42,225 2,187	102 8	12 6	34,130 1,247	28,489 3,582	498 9	345 10
La. Okla.	654 224	762 240	10,851 7,330	6,833 5,496	5 12	2 4	9,311 3,991	6,506 3,622	33 12	156 7
Tex.	2,785	3,450	38,078	27,709	77	-	19,581	14,779	444	172
MOUNTAIN Mont.	1,052 20	1,228 34	15,105 962	21,257 745	272 14	178	5,794 31	5,658 34	277 7	227 19
ldaho	19	41	1,291	1,110	30	7	121	92	87	44
Wyo. Colo.	1 209	13 313	399 10	427 5,036	51 60	53 45	18 1,684	42 1,412	48 22	56 24
N. Mex.	166	141	2,453	2,750	17	13	623	640	75	44
Ariz. Utah	385 91	269 98	7,537 1,527	7,815 1,220	21 69	25 21	2,724 163	2,606 191	3 21	24 3
Nev.	161	319	926	2,154	10	14	430	641	14	13
PACIFIC Wash.	4,477 303	5,942 455	58,219 7,982	50,050 6,526	326 65	190 56	13,419 1,378	11,589 1,397	798 15	804 22
Oreg.	128	222	4,236	3,526	88	86	611	539	5	3
Calif. Alaska	3,919 17	5,172 42	42,931 1,375	37,604 1,104	169 4	35	10,850 236	8,990 291	723 1	653
Hawaii	110	51	1,695	1,290	N	13	344	372	54	126
Guam P.R.	1,246	2 1,381	201 U	193 U	N 6	Ū	24 263	27 438	-	-
V.I. Amer. Samoa	19	74	N U	N U	N N	Ü	Ü	Ü	U U	U U
C.N.M.I.	-	1	Ň	Ň	N	ŭ	28	17	-	2

N: Not notifiable

U: Unavailable

^{-:} no reported cases

C.N.M.I.: Commonwealth of Northern Mariana Islands

^{*}Updated monthly to the Division of HIV/AIDS Prevention-Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention,

last update August 30, 1998.

National Electronic Telecommunications System for Surveillance.

Public Health Laboratory Information System.

TABLE II. (Cont'd.) Provisional cases of selected notifiable diseases, United States, weeks ending September 26, 1998, and September 20, 1997 (38th Week)

	Legionellosis		Lyı Dise		Mai	laria		hilis Secondary)	Tubero	culosis	Rabies, Animal
Reporting Area	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
	1998	1997	1998	1997	1998	1997	1998	1997	1998*	1997	1998
UNITED STATES	871	684	8,983	8,773	963	1,352	5,273	6,164	10,412	12,936	5,179
NEW ENGLAND	56	58	2,209	2,360	46	70	56	112	335	320	1,085
Maine	1	2	6	8	4	1	1	-	5	17	171
N.H.	3	6	34	22	5	8	1		9	10	47
Vt.	5	10	8	6	15	2	4	-	2	4	50
Mass.	25	21	611	265		25	35	56	190	175	384
R.I.	13	5	385	314	4	5	1	2	40	29	71
Conn.	9	14	1,165	1,745	18	29	14	54	89	85	362
MID. ATLANTIC	210	140	5,715	5,017	245	396	199	301	2,103	2,275	1,177
Upstate N.Y.	71	41	3,178	1,995	71	54	28	29	265	309	829
N.Y. City	25	15	19	142	109	247	46	66	1,093	1,146	U
N.J.	11	19	1,139	1,526	41	73	67	123	451	466	148
Pa.	103	65	1,379	1,354	24	22	58	83	294	354	200
E.N. CENTRAL	265	225	84	441	93	126	715	471	853	1,296	110
Ohio	100	82	61	34	11	16	98	158	75	219	50
Ind.	47	38	17	25	10	13	150	124	78	102	9
III.	25	20	5	12	27	52	279	U	452	667	12
Mich.	63	52	1	23	38	33	141	102	245	218	30
Wis.	30	33	U	347	7	12	47	87	3	90	9
W.N. CENTRAL	59	38	159	82	70	45	96	135	274	405	547
Minn. Iowa	5 8	1 9	131 19	56 5	39 8	19 8	7	15 6	106 28	107 46	97 122
Mo.	20	7	1	15	12	9	73	86	88	163	19
N. Dak. S. Dak.	3	2 2	-	1	2	3 1	1	-	7 16	9	108 121
Nebr.	16	13	3	2	1	1	4	3	11	15	6
Kans.	7	4	5	3	8	4	11	25	18	56	74
S. ATLANTIC	106	89	600	605	219	247	2,179	2,536	1,451	2,445	1,518
Del.	11	9	12	105	3	5	17	17	U	25	17
Md.	22	14	439	393	63	73	493	706	215	232	356
D.C.	6	4	4	7	14	14	54	82	80	75	439
Va.	16	20	50	45	41	59	116	176	187	220	
W. Va.	N	N	9	5	2	14	2	3	30	45	62
N.C.	8	11	42	25	18		571	643	298	317	136
S.C.	8	5	4	2	5	15	232	280	197	244	111
Ga.	8	-	5	1	30	28	533	402	374	452	240
Fla.	25	26	35	22	43	39	161	227	70	835	157
E.S. CENTRAL	52	42	68	71	24	31	887	1,335	816	956	219
Ky.	23	8 25	13 40	12	4	11 7	79	104	127	126	28
Tenn. Ala.	17 5	2	14	34 6	13 5	10	414 213	568 342	243 287	345 309	116 73
Miss.	7	7	1	19	2	3	181	321	159	176	2
W.S. CENTRAL	20	12	22	61	24	18	762	891	1,517	1,862	125
Ark. La.	2	1 2	6 3	17 2	1 11	4	80 302	120 266	90 106	140 161	29
Okla. Tex.	8 10	1 8	2 11	12 30	4 8	5	77 303	89 416	134 1,187	152 1,409	96
MOUNTAIN Mont.	50 2	44 1	12	9	45 1	59 2	158	129	290 16	417	172 46
ldaho	2	2	3	3	7	-	1	1	8	7	-
Wyo. Colo.	1 14	1 16	3	1	16	2 26	1 9	1 <u>1</u>	4 U	2 66	53 29
N. Mex.	2	2	4	1	12	8	22	5	44	45	5
Ariz.	10	9		1	8	9	119	98	138	186	12
Utah	18	8	2	1	1	3	3	5	46	26	25
Nev.	1	5		2	-	9	3	9	34	79	2
PACIFIC	53	36	114	127	197	360	221	254	2,773	2,960	226
Wash.	9	6	6	7	17	18	24	8	156	230	
Oreg.	-	-	15	17	14	19	5	6	100	117	4
Calif.	42	29	92	103	161	314	190	238	2,359	2,414	199
Alaska Hawaii	1 1	- 1	1	-	2	3	1	1	35 123	60 139	23
Guam	2	-	-	-	1	-	1	3	36	13	<u>-</u>
P.R. V.I.	Ū	Ū	Ū	Ū	Ū	5 U	148 U	178 U	68 U	164 U	39 U
Amer. Samoa	U	U	U	U	U	U	U	U	U	U	U
C.N.M.I.	-	-	-	-	-	-	164	9	77	2	-

N: Not notifiable U: Unavailable -: no reported cases

^{*}Additional information about areas displaying "U" for cumulative 1998 Tuberculosis cases can be found in Notice to Readers, MMWR Vol. 47, No. 2, p. 39.

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending September 26, 1998, and September 20, 1997 (38th Week)

	H. influ	ienzae,	н	epatitis (Vi		ое Ое	Measles (Rubeola)						
	inva	sive		4	I	В	Indi	genous	lm	ported [†]		tal	
Reporting Area	Cum. 1998*	Cum. 1997	Cum. 1998	Cum. 1997	Cum. 1998	Cum. 1997	1998	Cum. 1998	1998	Cum. 1998	Cum. 1998	Cum. 1997	
UNITED STATES	788	821	15,856	20,502	5,931	6,900	6	37	-	20	57	116	
NEW ENGLAND	53	47	197	494	132	129	-	1	-	2	3	19	
Maine N.H.	2 7	5 6	16 8	47 22	2 14	6 10	-	-	-	-	-	1 1	
Vt. Mass.	5 33	3 29	14 73	10 202	4 35	7 54	-	- 1	-	1 1	1 2	- 16	
R.I. Conn.	5 1	2 2	14 72	111 102	59 18	12 40	-	-	-	-	-	1	
MID. ATLANTIC	116	125	1,063	1,564	823	1,005	_	8	_	5	13	23	
Upstate N.Y. N.Y. City	46 26	40 32	265 248	250 697	220 204	216 360	-	1	-	1	2	5 7	
N.J.	39	37	255	225	161	189	-	7		1	8	3	
Pa. E.N. CENTRAL	5 132	16 135	295 2,414	392 2,118	238 630	240 1,088	U	- 11	U -	3 3	3 14	8 10	
Ohio	43	74	247	244	57	60	-	-		1	1	-	
Ind. III.	35 45	13 33	118 419	222 564	74 126	77 206	U -	2	U -	1 -	3 -	7	
Mich. Wis.	5 4	15 -	1,494 136	936 152	347 26	322 423	-	9	-	1 -	10 -	2 1	
W.N. CENTRAL	74	39	1,055	1,613	297	350	-	-	-	-	-	17	
Minn. Iowa	58 2	27 5	95 376	133 337	34 50	27 28	-	-	-	-	-	8 -	
Mo. N. Dak.	8	4	449 3	826 10	177 4	254 5	-	-	-	-	-	1	
S. Dak.	-	2	21	18	2	1		-		-	-	8	
Nebr. Kans.	6	1 -	29 82	75 214	9 21	12 23	U U	-	U	-	-	-	
S. ATLANTIC	161	126	1,404	1,254	860	897	-	3	-	5	8	11	
Del. Md.	43	46	3 238	23 146	1 118	5 126	-	-	-	1 1	1 1	2	
D.C. Va.	- 15	12	45 163	17 167	10 79	25 91	-	-	-	2	2	1 1	
W. Va. N.C.	4 23	3 19	4 90	10 150	5 169	14 180	-	-	-	-	-	2	
S.C.	3 35	4 24	29 433	83 274	29	81 104	-	- 1	-	- 1	2	1 1	
Ga. Fla.	38	18	399	384	129 320	271	-	2	-	1 -	2	3	
E.S. CENTRAL	42 7	41 6	295 18	470 61	291 32	518 29	-	-	-	2	2	1	
Ky. Tenn.	23	24	178	290	205	333	-	-	-	1	1	-	
Ala. Miss.	10 2	9 2	56 43	67 52	53 1	55 101	-	-	-	1 -	1 -	1 -	
W.S. CENTRAL	45	38	3,135	4,216	1,015	936		1		-	1	7	
Ark. La.	22	2 10	77 64	179 164	69 75	63 111	U U	1	U U	-	1	-	
Okla. Tex.	21 2	24 2	440 2,554	1,158 2,715	70 801	38 724	-	-	-	-	-	- 7	
MOUNTAIN	76	70	2,275	3,211	609	651	-	-	-	-	-	8	
Mont. Idaho	-	1	79 206	58 105	5 27	7 28	-	-	-	-	-	-	
Wyo. Colo.	1 17	3 13	32 235	26 314	4 86	22 117	U	-	U	-	-	-	
N. Mex.	6	7	109	264	258	193		-	-	-	-	-	
Ariz. Utah	41 4	28 3	1,371 157	1,640 469	138 57	149 73	U -	-	U -	-	-	5 1	
Nev. PACIFIC	7	15 200	86 4.018	335 5,562	34 1 274	62 1,326	-	- 12	-	-	-	2 20	
Wash.	89 7	4	4,018 775	423	1,274 77	57	6	13 -	-	3 1	16 1	2	
Oreg. Calif.	34 40	29 156	279 2,913	274 4,722	81 1,101	83 1,167	-	- 5	-	2	- 7	- 14	
Alaska Hawaii	1 7	4 7	16 35	²⁵ 118	9	, 11 8	6	8	-	-	8	- 4	
Guam	-	-	-	-	2	3	U	-	U	-	-	-	
P.R. V.I.	2 U	Ū	49 U	225 U	319 U	563 U	U U	- U	U U	Ū	- U	- U	
Amer. Samoa C.N.M.I.	ŭ	Ŭ 6	Ŭ 3	Ŭ 1	Ŭ 53	Ŭ 34	Ŭ	Ŭ	Ŭ	ŭ	ŭ	Ŭ 1	
C.IV.IVI.I.		Ö	3	ı	53	34	U		U		-	ı	

N: Not notifiable

U: Unavailable

^{-:} no reported cases

^{*}Of 186 cases among children aged <5 years, serotype was reported for 103 and of those, 39 were type b.

[†]For imported measles, cases include only those resulting from importation from other countries.

TABLE III. (Cont'd.) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending September 26, 1998, and September 20, 1997 (38th Week)

	Mening		ЗОБС	Mumps		(000	Pertussis	-,		Rubella	
Reporting Area	Cum. 1998	Cum. 1997	1998	Cum. 1998	Cum. 1997	1998	Cum. 1998	Cum. 1997	1998	Cum. 1998	Cum. 1997
UNITED STATES	2,005	2,480	1998	357	454	144	3,954	3,934	1998	320	140
NEW ENGLAND	2,005 76	156	-	4	454 8	23	660	703	-	320	140
Maine	5	17 12	-	-	-	-	5	9	-	-	-
N.H. Vt.	4 1	4	-	-	-	7 -	70 65	89 192	-	-	-
Mass. R.I.	38 3	76 15	-	2	2 5	14 2	477 9	382 12	-	9 1	1 -
Conn.	25	32	-	2	1	-	34	19	-	29	-
MID. ATLANTIC Upstate N.Y.	181 46	259 70	-	19 4	48 10	13 13	416 223	306 121	-	130 111	31 4
N.Y. City	20	44	-	4	3 7	-	23	59	-	14	27
N.J. Pa.	49 66	50 95	Ū	2 9	28	Ū	5 165	12 114	Ū	4 1	-
E.N. CENTRAL	302	369	-	59	53	9	399	406	-	-	6
Ohio Ind.	113 51	133 42	Ū	23 5	19 7	Ū	191 83	109 39	Ū	-	-
III. Mich.	77 35	110 52	-	10 21	8 16	8 1	57 51	58 47	-	-	2
Wis.	26	32	-		3	-	17	153	-	-	4
W.N. CENTRAL Minn.	166 29	177 29	-	25 12	14 5	18 16	321 200	305 196	-	27	-
lowa	30	39	-	9	7	2	57	26	-	-	-
Mo. N. Dak.	59 5	76 2	-	3 1	-	-	22 2	55 1	-	2	-
S. Dak. Nebr.	7 9	5 8	Ū	-	- 1	- U	8 10	4 5	Ū	-	-
Kans.	27	18	ŭ	-	1	ŭ	22	18	ŭ	25	-
S. ATLANTIC Del.	345 2	421 5	2	43	56	18	243 3	352 1	-	15	63
Md.	24	40	-	-	1	7	46	102	-	1	-
D.C. Va.	1 28	8 42	-	6	10	-	1 19	3 42	-	-	1 1
W. Va. N.C.	12 47	14 78	-	10	9	- 5	1 81	6 99	-	- 11	- 53
S.C. Ga.	49 76	43 83	-	6	10 8	2	24 21	22 11	-	-	6
Fla.	106	108	2	20	18	1	47	66	-	3	2
E.S. CENTRAL Ky.	181 22	185 38	-	13	24 3	-	83 25	110 47	-	2	1
Tenn.	58	62	-	1	4	-	31	32	-	1	-
Ala. Miss.	77 24	62 23	-	7 5	7 10	-	24 3	21 10	-	1 -	1 -
W.S. CENTRAL	254	235		52	63	12	266	189		88	4
Ark. La.	26 52	28 47	U U	7 9	1 12	U U	53 5	21 17	U U	1	-
Okla. Tex.	33 143	31 129	-	36	- 50	- 12	19 189	28 123	-	- 87	4
MOUNTAIN	111	144	_	31	51	45	753	892	-	5	7
Mont. Idaho	4 9	7 8	-	- 4	2	2 1	9 226	15 482	-	-	2
Wyo.	5	2	U	1	1	U	8	7	U	-	-
Colo. N. Mex.	22 20	37 24	- N	7 N	3 N	2	149 80	252 77	-	1	-
Ariz. Utah	35 11	39 12	U	5 5	31 7	U 40	142 110	31 14	U	1 2	5
Nev.	5	15	-	9	7	-	29	14	-	1	-
PACIFIC Wash.	389 53	534 67	3	111 7	137 14	6 2	813 238	671 273	-	14 9	27 5
Oreg.	65	100	N	N	N	2 2	70	34	-	-	-
Calif. Alaska	264 3	358 2	3 -	83 2	97 6	-	485 14	331 16	-	3 -	14 -
Hawaii	4	7	-	19	20	-	6	17	-	2	8
Guam P.R.	1 6	1 8	U U	2 1	1 7	U U	3	-	U U	-	-
V.I. Amer. Samoa	Ü	Ü	Ü	U U	U U	Ü	Ü	U	Ü	U U	U U
C.N.M.I.	-	-	ŭ	2	4	ŭ	1	-	ŭ	-	-

N: Not notifiable

U: Unavailable

TABLE IV. Deaths in 122 U.S. cities,* week ending September 26, 1998 (38th Week)

	-	All Causes, By Age (Years)						P&I' Parastina Assa	,	All Cau	ıses, By	/ Age (Y	ears)		P&I [†]
Reporting Area	All Ages	>65	45-64	25-44	1-24	<1	Total	Reporting Area	All Ages	>65	45-64	25-44	1-24	<1	Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mas: New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn.		389 90 18 16 22 26 12 17 19 21 42 27 30	28 3 1 4 7 5 2 5 7 7 1 6	42 10 3 2 4 2 2 1 1 3 - 4 2 2	10 2 1 - - 1 - 2 1	12 9 1 1 - - - - 1	47 18 1 1 2 2 2 2 4 1 1 4 3	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D.C. Wilmington, Del.	1,129 150 186 90 116 91 55 65 52 80 159 69	725 88 114 57 81 55 36 42 32 56 109 47 8	245 39 41 18 18 23 9 15 14 13 33 15 7	96 15 23 7 10 7 4 4 7 11 4	26 6 4 1 1 2 1 2 2 1 3 3	36 2 4 7 6 4 5 2 3 3	57 1 14 5 4 5 4 3 9 9 3
Waterbury, Colin. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa. Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa. Syracuse, N.Y. Trenton, N.J.	2,135 39 17 85 33 15 29 51	1,475 24 14 61 22 8 25 28 727 29 14 189 40 15 113 19 21 86 62	8 388 11 2 4 5 4 2 16 223 12 65 4 17 5 3 9	8 170 2 1 4 2 1 6 92 5 4 33 1 1 5 - 3 7 1	1 39 - 4 2 - 1 7 3 2 5 1 - 1	49 2 1 1 26 2 1 7 1 3	38 111 3 6 3 42 4 23 3 4 7 3 1 10	E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn. W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex.	81 73 137 112 43 124 1,476 72 45 49 203 109 149 400 61 U 204	537 128 52 53 43 79 78 34 70 910 33 33 33 117 72 97 230 45 U	185 34 17 18 21 38 19 8 30 350 22 9 9 50 21 29 100 11 U	63 5 3 7 6 15 12 1 14 120 12 3 3 22 7 11 39 1 U	11 2 1 2 2 2 3 58 3 6 7 7 21 2 U 3	23 6 1 2 3 3 1 7 38 2 5 10 2 5 10 5	51 16 4 6 6 5 7 7 87 3 3 11 26 3 10 16
Utica, N.Y. Yonkers, N.Y. E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, Ill. Cincinnati, Ohio Cleveland, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Gary, Ind. Grand Rapids, Micl Indianapolis, Ind. Lansing, Mich. Milwaukee, Wis. Peoria, Ill. Rockford, Ill. South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	223 33 125 38 51 57 79 46 853 106 35 24 83 33	20 U 1,369 377 33 246 638 93 114 342 55 153 266 79 28 15 564 777 51	U 465 13 76 24 39 45 58 112 3 110 10 9 12 145 6 6 6 13 9 30 21 11	1 U 166 5 2 49 5 9 10 10 10 10 10 10 10 10 10 10 10 10 10	U 80 1 19 34 8 2 11 3 3 2 1 11 2 2 3 6 6 4 11 8 3	0 U 688 3 3 5 2 2 7 7 1 2 2 3 3 1 1 2 2 5 6 6 5 6 7 1 1 3 3	2 U 120 6 28 14 7 8 1 10 2 8 1 4 7 4 1 37 8 1 1 2 4 1 1 1 1 1	Shreveport, La. Tulsa, Okla. MOUNTAIN Albuquerque, N.M. Boise, Idaho Colo. Springs, Colo Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Diego, Calif. San Trancisco, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash.	110 167 21 178 17 97 152 1,744 100 122 38 75 54 467 13 128 141 161	54 63 636 90 18 37 81 108 15 95 111 1,243 81 30 59 94 105 96 76 107 12 74 39 69 7,890	20 29 194 8 12 17 45 4 45 22 321 30 8 8 3 82 36 20 38 19 30 6 27 9 12 2,379	3 6 82 13 7 7 7 10 25 1 9 10 109 3 7 - 2 2 2 8 4 11 18 8 8 8 - 15 2 2 15 2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4 2 24 5 1 3 3 5 43 - 2 - 1 1 1 1 1 3 4 6 6 4 6 - 4 3 3 2 7	1 2 24 2 - 1 1 5 1 2 8 8 - 1 4 4 2 2 7 7 - 1 1 3 3 3 1 1 - 3 3 3 1 1 - 3 3 2 - 2 2 9 3	6 8 57 3 1 8 8 - 11 - 7 16 134 - 6 3 7 13 18 - 11 19 23 14 3 4 5 7 7 7 7 7 7 7

U: Unavailable -: no reported cases

*Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

†Pneumonia and influenza.

Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

Total includes unknown ages.

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